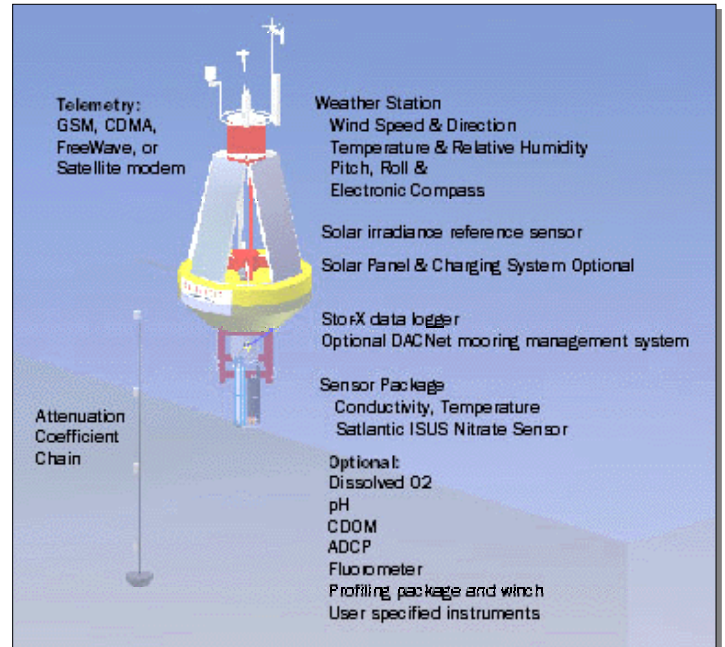


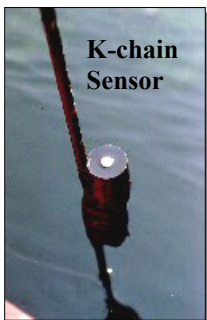
COASTMINDER PRODUCTS

Satlantic's **CoastMinder** buoys are designed to study the physical, chemical, and biological properties of coastal and inland waters. *The CoastMinder 1.6m Buoy* comes complete with everything required to measure key parameters of water quality and to explore the complex interactions between these elements. The system is designed to permit maximum ease of integration of new instruments in the future.

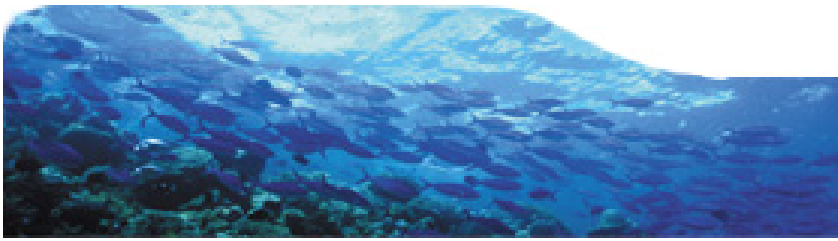
The **CoastMinder** system comes with all instruments mounted below the buoy at 1.3m depth. A profiling package and winch option is also available. The optics package includes a four-channel downwelling irradiance surface reference and an outrigger chain of four sensors mounted at specific depths. High precision optical measurements are the preferred method of measuring constituents in the water such as, CDOM, chlorophyll and sediments. Measurements of the attenuation coefficient provide a vertical profile of water properties, which help to capture changes below the surface. All measurements are traceable to NIST standards.



This buoy package is easy to maintain and simple to deploy from a boat ramp or any vessel of opportunity. The system comes complete with a high capacity battery pack, optional supporting solar array and charging system, radar reflector, beacon light, static dissipater, mooring lines and anchors.



Data is collected by Satlantic's STOR-X system. This data logger consists of a controller with multiple serial ports for data acquisition along with a 128 MB CompactFlash disk to store the data. It acquires and logs data according to the researcher's specified sampling schedule. Four telemetry options are available: GSM, CDMA, Satellite Modem and Free Wave packet radio. This logger system can be used on any platform or remote location. Data processing and viewing is performed with a GUI web interface that allows the user to view buoy data in **near-real time** and to upload new scheduling information.



Satlantic's *CoastMinder* products provide a standard system for water quality monitoring with the capability to customize the platform, the instruments, and the controller to meet the most demanding scientific needs.

CoastMinder References

Satlantic has designed and manufactured several observation systems for leading research institutes. Please contact Satlantic to discuss your application requirements with us.

Dalhousie University, CMEP Program **www.cmep.ca**

Dalhousie is entering their third season with a network of coastal ocean observatories designed by Satlantic to monitor water quality, weather, and ocean features in the Lunenburg Bay area.

Three buoys equipped with Satlantic optical sensors and data handling systems have been deployed in the Bay and surrounding area. This network system allows the public to have access to coastal weather, tides, and water clarity measurements, 24 hours a day, 7 days a week via the Internet.



Laboratoire d'Océanographié de Villefranche **Villefranche-sur-Mer, France.**

As part of the Bouéé pour l'acquisition de Séries Optiques à Long Terme (BOUSSOLE) Program, Satlantic developed a buoy system integrated with a suite of optical sensors. Power and data processing from this observatory is managed and controlled by Satlantic's powerful DACNet system. The BOUSSOLE buoy is deployed in the Ligurian Sea (between France and Corsica) as part of the MERIS calibration and validation activities being developed at Laboratoire d'Océanographié de Villefranche located in Villefranche-sur-Mer, France.



National Research Council **Institute for Marine Biosciences, Dalhousie University**

A buoy equipped with underwater sensors and a real-time communications package has been deployed in Ship Harbor, N.S. to remotely monitor and assess coastal waters, specifically the feeding patterns of farmed mussels and the potential for harmful algal blooms.

